

# Final Landscape Plan

# 77th STREET PROJECT

# Naperville, Illinois

April 16, 2020

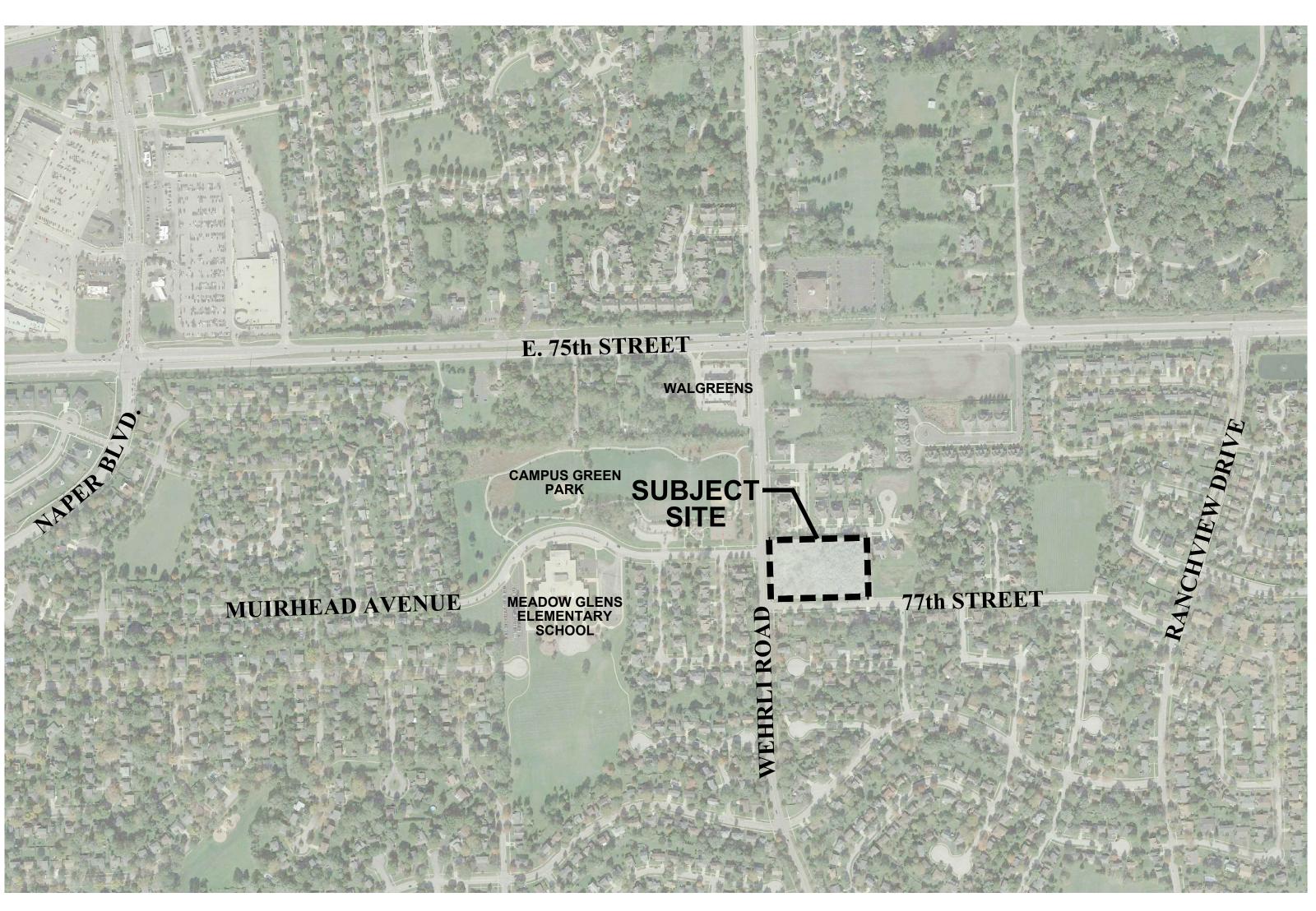
# CONSULTANTS:



LANDSCAPE ARCHITECT:

GARY R. WEBER ASSOCIATES, INC 402 W. LIBERTY DRIVE WHEATON, ILLINOIS 60187



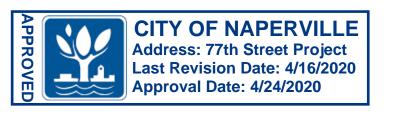


LOCATION MAP

SCALE: 1"=400'

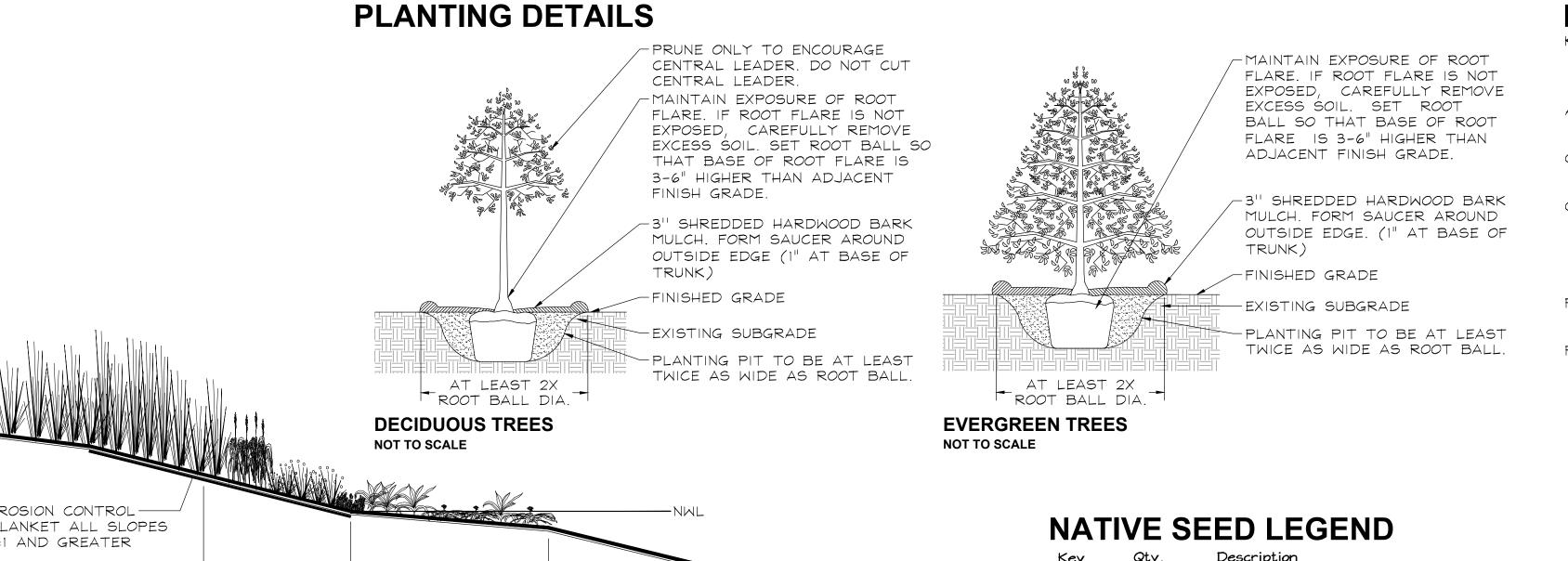
# INDEX OF SHEETS

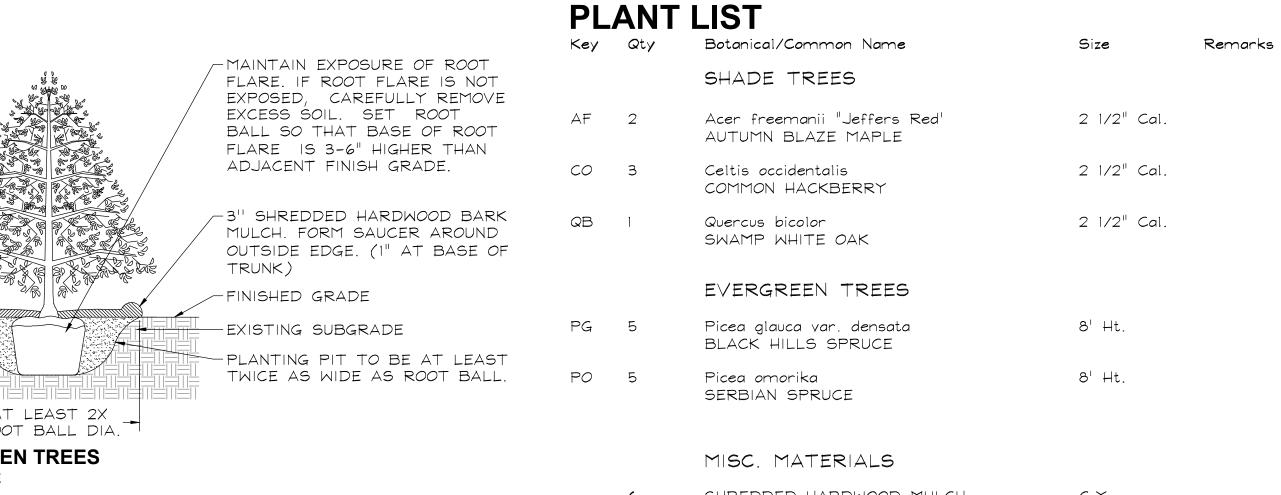
SHEET NO.	DESCRIPTION
0	COVER SHEET
1	LANDSCAPE PLAN
2	TREE INVENTORY / PRESERVATION PLAN
3	LANDSCAPE SPECIFICATIONS

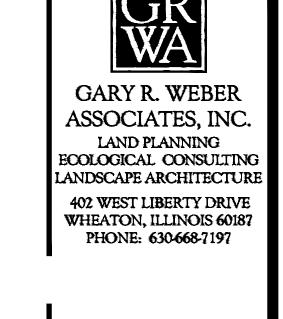


#### **GENERAL NOTES** Trees shall be installed a minimum of five (5) feet horizontally from underground electrical feeders, storm sewers, sanitary sewers, sanitary services, water mains, and water services. Trees shall be installed a minimum of ten (10) feet horizontally from utility structures and appurtenances, including, but not limited to, manholes, valve vaults, valve boxes and fire hydrants. No trees, shrubs or obstacles will be allowed 10' in front of, 5' on the sides, and 7' to the rear of the electrical transformer.

- 2. Contractor shall verify underground utility lines and is responsible for any damage.
- 3. Contractor shall verify all existing conditions in the field prior to construction and shall notify landscape architect of any variance.
- 4. Material quantities shown are for contractors convenience only. The Contractor must verify all material and supply sufficient materials to complete the job per plan.
- 5. The landscape architect reserves the right to inspect trees and shrubs either at place of growth or at site before planting, for compliance with requirements of variety, size and quality.
- 6. Work shall conform to American Standard for Nursery
- inspections necessary for the proper execution of this work and comply with all codes applicable to this work.
- work for additional requirements.







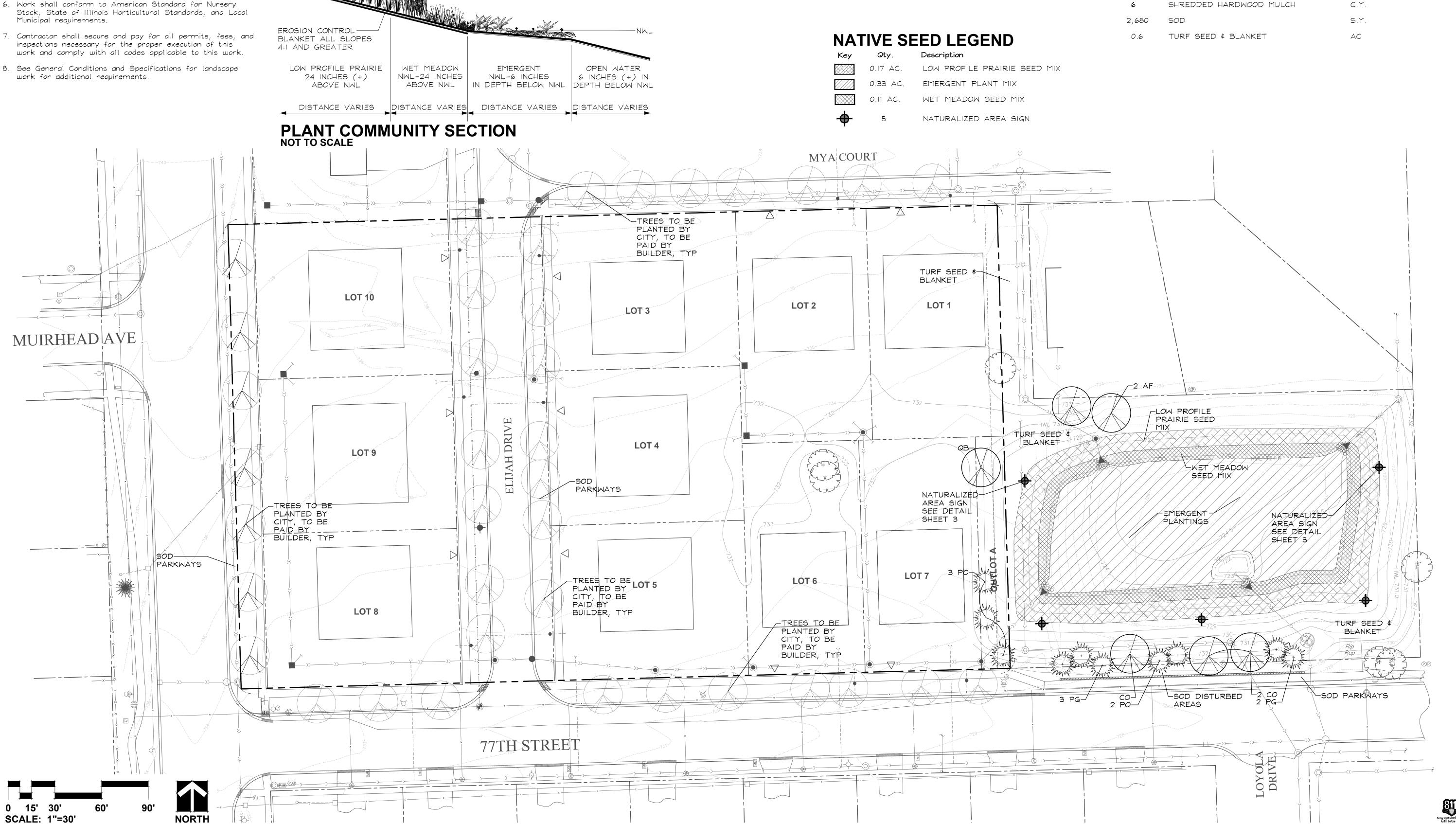
CEMCON, LTD. 2280 WHITE OAK CIR., SUITE 100 AURORA, ILLINOIS 60502 P: 630-862-2100

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Ω STREE **77th** 

4.16.2020 3.11.2020 2.07.2020 REVISIONS

12.18.2019 PROJECT NO. CHECKED SHEET NO.



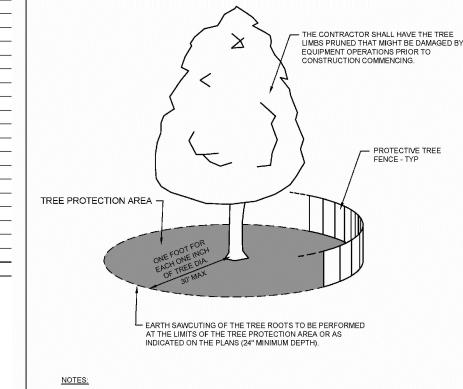
# TREE INVENTORY

Num ber	Common Name	Botanic Name	Size	Condition	Proposed Action	Num ber	Common Name	Botanic Name	Size	Condition	Proposed Action	Numb	r Common Name	Botanic Name	Size	Condition	Proposed Actio
1858	Box Elder	Acer negundo	15	4	Remove	1909	Silver Maple	Acer saccharinum	16	3	Remove	194	Silver Maple	Acer saccharinum	15	4	Remove
1859	Silver Maple	Acer saccharinum	13	4	Remove	1910	Silver Maple	Acer saccharinum	20	4	Preserve	194	Silver Maple	Acer saccharinum	14 - 18	4	Remove
1860	Silver Maple	Acer saccharinum	14	4	Remove	1911	Red Elm	Ulmus rubra	12	3	Remove	194	Box Elder	Acer negundo	14	5	Remove
1861	Silver Maple	Acer saccharinum	29	4	Remove	1912	Silver Maple	Acer saccharinum	2 X 8	3	Remove	194	Silver Maple	Acer saccharinum	3 X 12	4	Remove
1862	Silver Maple	Acer saccharinum	17	3	Remove	1913	Red Elm	Ulmus rubra	15	3	Remove	194	Silver Maple	Acer saccharinum	2 X 12	4	Remove
1863	Silver Maple	Acer saccharinum	20 MS	4	Remove	1914	Box Elder	Acer negundo	14	4	Remove	195	Silver Maple	Acer saccharinum	5 X 12	4	Remove
1864	Silver Maple	Acer saccharinum	21 MS	4	Remove	1915	Red Elm	Ulmus rubra	14	4	Remove	195	Eastern Cottonwood	Populus deltoides	20 - 12	4	Remove
1865	Silver Maple	Acer saccharinum	13	4	Remove	1916	Chinese Elm	Ulmus parvifolia	10	3	Remove	195	Silver Maple	Acer saccharinum	36 MS	3	Remove
1866	Box Elder	Acer negundo	18 MS	5	Remove	1917	Box Elder	Acer negundo	12	4	Remove	195	Box Elder	Acer negundo	16 - 10	4	Remove
1867	Silver Maple	Acer saccharinum	15-12	4	Remove	1918	Eastern Cottonwood	Populus deltoides	21	3	Remove	195	Silver Maple	Acer saccharinum	18	4	Remove
1868	Box Elder	Acer negundo	20	4	Remove	1919	Black Cherry	Prunus serotina	15	4	Remove	195	Silver Maple	Acer saccharinum	16	4	Remove
1869	Box Elder	Acer negundo	18	4	Remove	1920	Red Oak	Quercus rubra	15	2	Remove	195	Black Walnut	Juglans nigra	15	3	Remove
1870	Silver Maple	Acer saccharinum	18-12	3	Remove	1921	Silver Maple	Acer saccharinum	12	4	Remove	195	Silver Maple	Acer saccharinum	2 X 18	4	Remove
1871	Silver Maple	Acer saccharinum	20	4	Remove	1922	Silver Maple	Acer saccharinum	16	3	Remove	195	Silver Maple	Acer saccharinum	12	4	Remove
1872	Common Hackberry	Celtis occidentalis	9	3	Remove	1923	Red Elm	Ulmus rubra	15	4	Remove	195	Silver Maple	Acer saccharinum	2 X 14	4	Remove
1873	Honey Locust	Gleditsia triancanthos inermis	38	2	Remove	1924	Silver Maple	Acer saccharinum	13	3	Remove	196	Box Elder	Acer negundo	18 - 14	4	Remove
1874	Eastern Cottonwood	Populus deltoides	14	4	Remove	1925	Red Elm	Ulmus rubra	24	3	Remove	196	Silver Maple	Acer saccharinum	12	4	Remove
1875	Eastern Cottonwood	Populus deltoides	15	3	Remove	1926	Silver Maple	Acer saccharinum	12	4	Remove	196	Silver Maple	Acer saccharinum	12	4	Remove
1876	Red Elm	Ulmus rubra	16	4	Remove	1927	Silver Maple	Acer saccharinum	14	4	Remove	196	Eastern Cottonwood	Populus deltoides	12	4	Remove
1877	Eastern Cottonwood	Populus deltoides	15	4	Remove	1928	Red Elm	Ulmus rubra	14	3	Remove	196	Silver Maple	Acer saccharinum	4 X 10	4	Remove
1878	Eastern Cottonwood	Populus deltoides	21	3	Remove	1929	Red Oak	Quercus rubra	2 X 14	3	Remove	196	Silver Maple	Acer saccharinum	14	4	Remove
1879	Red Elm	Ulmus rubra	12	3	Remove	1930	Red Oak	Quercus rubra	16	3	Remove	196	Box Elder	Acer negundo	24	4	Remove
1880	Eastern Cottonwood	Populus deltoides	16	3	Remove	1931	Red Oak	Quercus rubra	18	2	Remove	196	Silver Maple	Acer saccharinum	21	4	Remove
1881	Black Walnut	Juglans nigra	15	3	Remove	1932	Red Oak	Quercus rubra	19	2	Remove	196	Silver Maple	Acer saccharinum	13 - 18	4	Remove
1882	Chinese Elm	Ulmus parvifolia	19	4	Remove	1933	Silver Maple	Acer saccharinum	16	3	Remove	196	Box Elder	Acer negundo	14	4	Remove
1883	Red Elm	Ulmus rubra	16	3	Remove	1934	Box Elder	Acer negundo	20	4	Remove	197	Silver Maple	Acer saccharinum	13	4	Remove
1884	Silver Maple	Acer saccharinum	13	4	Remove	1935	Red Oak	Quercus rubra	11	4	Preserve	197	Silver Maple	Acer saccharinum	12	4	Remove
1885	Silver Maple	Acer saccharinum	14	4	Remove	1936	Red Oak	Quercus rubra	10	4	Preserve	197	Silver Maple	Acer saccharinum	12	4	Remove
1901	Black Walnut	Juglans nigra	12	3	Remove	1937	Silver Maple	Acer saccharinum	12	4	Remove	197	Silver Maple	Acer saccharinum	38 MS	4	Remove
1902	Box Elder	Acer negundo	16	4	Remove	1938	Silver Maple	Acer saccharinum	13	4	Remove	197	Red Elm	Ulmus rubra	13	3	Remove
1903	Box Elder	Acer negundo	20	4	Remove	1939	Silver Maple	Acer saccharinum	20	4	Remove	197	Box Elder	Acer negundo	13 - 10	4	Remove
1904	Silver Maple	Acer saccharinum	3 X 16	3	Remove	1940	Box Elder	Acer negundo	14	3	Remove	197	Box Elder	Acer negundo	13	4	Remove
1905	Box Elder	Acer negundo	18	4	Remove	1941	Silver Maple	Acer saccharinum	12	4	Remove	197	Box Elder	Acer negundo	17	4	Remove
1906	Box Elder	Acer negundo	20	5	Remove	1942	Silver Maple	Acer saccharinum	2 X 10	3	Remove	197	Silver Maple	Acer saccharinum	26	4	Remove
1907	Red Elm	Ulmus rubra	13	3	Remove	1943	Red Oak	Quercus rubra	15	4	Remove	197	Eastern Cottonwood	Populus deltoides	17	4	Remove
1908	Silver Maple	Acer saccharinum	12	3	Remove	1944	Box Elder	Acer negundo	12	5	Remove	198	Silver Maple	Acer saccharinum	28	4	Remove

i	Num ber	Common Name	Botanic Name	Size	Condition	Proposed Action
	1981	Red Elm	Ulmus rubra	15	4	Remove
	1982	Red Elm	Ulmus rubra	17	4	Remove
	1983	Box Elder	Acer negundo	14	4	Remove
	1984	Silver Maple	Acer saccharinum	13 - 10	4	Remove
	1985	Eastern Cottonwood	Populus deltoides	15	3	Remove
	1986	Eastern Cottonwood	Populus deltoides	24	4	Remove
	1987	Eastern Cottonwood	Populus deltoides	17	3	Remove
	1988	Box Elder	Acer negundo	15	4	Remove
	1989	Silver Maple	Acer saccharinum	60 MS	4	Remove
	1990	Black Walnut	Juglans nigra	12	3	Remove
	1991	Box Elder	Acer negundo	19	4	Remove
	1992	Silver Maple	Acer saccharinum	16	4	Remove
	1993	Eastern Cottonwood	Populus deltoides	14	4	Remove
	1994	Silver Maple	Acer saccharinum	15	3	Remove
	1995	Silver Maple	Acer saccharinum	15	4	Remove
	1996	Silver Maple	Acer saccharinum	12	4	Remove
	1997	Silver Maple	Acer saccharinum	12	4	Remove
	1998	Silver Maple	Acer saccharinum	28 MS	4	Remove
	1999	Silver Maple	Acer saccharinum	14 - 12	4	Remove
	2000	Silver Maple	Acer saccharinum	20 MS	4	Remove

## NOTE:

- TREE CONDITION KEY:
- 1 = EXCELLENT 2 = GOOD/FAIR
- 3 = FAIR 4 = FAIR/POOR
- 5 = POOR
- 2. TREE SURVEY AND INVENTORY CONDUCTED BY CEMCON, LTD.



- . A TREE PROTECTION AREA SHALL BE ESTABLISHED AROUND A TREE A DISTANCE OF ONE FOOT FOR EACH ONE INCH OF TREE DIAMETER, UP TO A MAXIMUM OF 30 FEET.
- 2. PROTECTIVE TREE FENCE SHALL BE INSTALLED AT THE LIMITS OF THE TREE PROTECTION AREA. THE FENCE SHALL BE HIGH ENOUGH SO AS TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL.
- 3. GRADE CHANGES, UTILITY TRENCHES, STORAGE OF CONSTRUCTION MATERIAL, DUMPING OF WASTE, OR OPERATION OR STORAGE OF ANY EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE TREE PROTECTION AREA.
- 4. AUGURING IS REQUIRED IF A UTILITY MUST BE INSTALLED WITHIN THE TREE PROTECTION AREA. AUGURED UTILITIES MUST BE A MINIMUM OF 24 INCHES BELOW GRADE. 5. ALL TREES TO BE SAVED WHICH HAVE BEEN SUBJECTED TO CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION AREA SHOULD BE SELECTIVELY THINNED 10% BY AN ARBORIST SKILLED AT THE SELECTIVE

	THINNING PROCEDURE. NONE OF THE TREES SHALL BE TOPPED, HEADED BACK, SKINNED (REMOVAL OF T INTERIOR BRANCHES), OR CLIMBED WITH SPIKES. ALL DEAD WOOD SHOULD BE REMOVED TO AVOID HAZA
6.	IT IS RECOMMENDED THAT FOLLOWING CONSTRUCTION, TREES BE MAINTAINED IN THEIR NATIVE CONDITING LAWN SHOULD BE PLACED AROUND THE TREES. IT IS RECOMMENDED THAT THE AREA BE MULCHED WE INCHES OF DECOMPOSED LEAVES AND 2 INCHES OF WOOD CHIPS OR BARK.

W	City of Naperville STANDARD DETAIL	TREE PRO	TECTION	790.10
್ರಜ್ಞಾನ್ಯ	DETAIL	REVISED: 08/01/2018	SHEET 1 OF 1	7.00110

# TREE PRESERVATION NOTES:

- 1. 48" high snow fence or wood barriers shall extend to the dripline of the tree or tree mass whenever possible, shall be installed before construction begins, and should not be removed until the completion of
- 2. All accidental damage to existing trees that are to be preserved shall be promptly treated as required in accordance with recognized horticultural practices and the instructions of the professional Arborist, Landscape
- 3. Broken or badly bruised branches shall be removed with a clean cut. If recommended by the professional Arborist, Landscape Architect or
- and branches from damage by contact with material, machinery or
- 5. Contractors shall protect trees and vegetation against spills or discharge of fuels, lubricating oils, hydraulic fluids, anti-freeze and coolants, calcium chloride, lime and all other similar hydrocarbons, organic chemicals, and

- construction.
- Architect or Horticulturist.
- Horticulturist.
- 4. Care shall be exercised by the contractors to protect all overhead limbs equipment and by damage from engine exhaust.
- other materials which can be harmful.

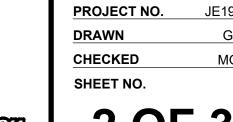


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0 15' 30' SCALE: 1"=30'







GARY R. WEBER ASSOCIATES, INC. LAND PLANNING ECOLOGICAL CONSULTING LANDSCAPE ARCHITECTURE 402 WEST LIBERTY DRIVE WHEATON, ILLINOIS 60187 PHONE: 630-668-7197

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TREE INVENTORY

4.16.2020 3.11.2020 2.07.2020

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#### LANDSCAPE WORK PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

The work shall consist of furnishing, transporting and installing all seeds, plants and other materials The establishment of trees, shrubs, perennial, annual and lawn areas as shown on Landscape

- 2. The provision of post-planting management as specified herein;
- 3. Any remedial operations necessary in conformance with the plans as specified in this document,
- 4. Permits which may be required.

#### 1.2 QUALITY ASSURANCE

- A. Work shall conform to State of Illinois Horticultural Standards and local municipal requirements.
- B. Quality Control Procedures:
- 1. Ship landscape materials with certificates of inspection as required by governmental authorities. Comply with governing regulations applicable to landscape materials.
- 2. Do not make substitutions. If specified landscape material is not obtainable, submit to Landscape Architect proof of non-availability and proposal for use of equivalent material.
- 3. Analysis and Standards: Package standard products with manufacturers certified analysis.

#### 1.3 SUBMITTALS

A. Planting Schedule

Submit three (3) copies of the proposed planting schedule showing dates for each type of planting

B. Maintenance Instruction - Landscape Work

Submit two (2) copies of typewritten instructions recommending procedures to be established by the Owner for the maintenance of landscape work for one full year. Submit prior to expiration of required maintenance periods.

Instructions shall include: watering, fertilizing, spraying, mulching and pruning for plant material and trimming groundcover. Instructions for watering, fertilizing and mowing grass areas shall be provided ten (10) days prior to request for inspection for final acceptance. Landscape Architect shall receive copies of all instructions when issued.

- C. Submit two (2) copies of soil test of existing topsoil with recommendations for soil additive requirement to Landscape Architect for review and written approval.
- D. Submit two (2) samples of shredded hardwood bark mulch, erosion control blankets, and all other products and materials as specified on plans to Landscape Architect for review and written approval.
- E. Nursery packing lists indicating the species and quantities of material installed must be provided to

### 1.4 JOB CONDITIONS

- A. Examine and evaluate grades, soils and water levels. Observe the conditions under which work is to be performed and notify Landscape Architect of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in an acceptable manner.
- B. Utilities: Review underground utility location maps and plans; notify local utility location service; demonstrate an awareness of utility locations; and certify acceptance of liability for the protection of utilities during course of work. Contractor shall be responsible for any damage to utilities or
- C. Excavation: When conditions detrimental to plant growth are encountered such as rubble fill, adverse drainage conditions or obstructions, notify Landscape Architect before planting.

#### 1.5 GUARANTEES

- A. Guarantee seeded and sodded areas through the specified maintenance period and until final
- B. Guarantee trees, shrubs, groundcover and perennials for a period of one year after date of acceptance against defects including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others or unusual phenomena or incidents which are beyond Landscape Installer's control.
- C. Native Planting Area Performance Criteria

1st Full Growing Season: 90% of cover crop shall be established. There shall be no bare areas greater than two (2) square feet in seeded areas. At least 25% of vegetation coverage shall be native, non-invasive species. At least 50% of the emergent species, if planted as plugs shall be alive and apparent.

2nd Full Growing Season: All areas with the exception of emergent zones shall exhibit full vegetative cover. At least 50% of the vegetation coverage shall be native, non-invasive species.

3rd Full Growing Season: At least 75% of vegetation coverage shall be native, non-invasive species Non-native species shall constitute no more than 25% relative aerial coverage of the planted area. Invasive species for this project shall include the following: Ambrosia artemisiifolia \$ trifida (Common \$ Giant Ragweed), Cirsium arvense (Canada Thistle), Dipsacus laciniatus (Cut-leaved Teasel), Dipsacus sylvestris (Common Teasel), Lythrum salicaria (Purple Loosestrife), Melilotus sp. (Sweet Clover), Phalaris arundinacea (Reed Canary Grass), Phragmides australis (Giant Reed), Fallopia japonica (Japanese Knotweed), Rhamnus cathardica \$ frangula (Common \$ Glossy Buckthorn), Typha sp. (Broadleaf, Narrowleaf, and Hybrid Cattail). Edit as necessary based on project specifics.

# LANDSCAPE WORK PART 2 - PLANT MATERIAL

# 2.1 LAWN SOD

Provide strongly rooted sod, not less than two (2) years old and free of weeds and undesirable native grasses. Provide only sod capable of growth and development when planted (viable, not dormant) and in strips not more than 18" wide x 4' long. Provide sod composed of a 5-way blend of Kentucky Bluegrass such as: Midnight, Allure, Viva, Washington, Liberty.

# 2.2 LAWN SEED MIXTURE

Grass Seed: Provide fresh, clean, new crop seed complying with the tolerance for purity and germination established by the Official Seed Analysts of North America. Provide seed of the grass species, proportions and maximum percentage of weed seed, as specified.

- A. Lawn Seed Mixture 5 lbs. / 1,000 sq. ft.
- 50 % Kentucky Bluegrass 98/85 Cutter Perennial Ryegrass Spartan Hard Fescue
- Edge Perennial Ryegrass 10% Express Perennial Ryegrass
- 5%Pennlawn Creeping Red Fescue
- B. Temporary Lawn Seed Mixture 5 lbs. / 1,000 sq. ft. 40% Kentucky Bluegrass 98/85
- 40% Perennial Ryegrass 20% Annual Ryegrass

# 2.3 NATIVE PLANTING MIXTURES

Provide fresh, clean, new crop of the species and proportions as specified. Native seed and live plant material shall be obtained from a reputable supplier (approved by Landscape Architect) that has collected from sources east of the Mississippi River within the same EPA Level III Ecoregion as the project site (Central Corn Belt Plains). Any material sourced from outside this ecoregion must be approved by the Landscape Architect prior to installation.

For each species, the amount of seed indicated on the specifications shall mean the total amount of pure live seed (PLS) per acre. Seed tags and PLS testing information shall be provided to the Landscape Architect prior to seeding.

It is the sole responsibility of the Native Landscape Contractor to provide approved seed that meets industry-standard PLS requirements.

# A. Temporary Cover Crop:

seedina area.

Cover crops shall be installed in all planting areas containing dry mesic, mesic, and wet mesic soils to, stabilize soils, and combat weed pressure during the germination and establishment of the native

# For spring plantings use Seed Oats at the specified rate below:

# Botanical Name Common Name 1bs. /AC.

Avena sativa Seed Oats 40.0 lbs.

For fall or dormant plantings, use Regreen® at the specified rates below:

Botanical Name	Common Name	1bs. /AC
Triticum aestivum	RegreenE	50.0 lbs.

## B. Emergent Plantings - Shoreline edge and Planting shelf 4" deep - 12" deep

Botanical Name	Common Name	1b	s /AC	Plugs/A
Acorus calamus	Sweet Flag	0.500	988	
Alisma subcordatum	Water Plantain	1.250		
Eleocharis obtusa	Blunt Spike Rush	0.375		
Eleocharis palustris	Marsh Śpike Rush	0.375		
Glyceria grandis	Reed Manna Grass	0.375		
Hibiscus laevis	Rose Mallow	0.250		
Iris virginica shrevei	Blue Flaa	0.500	988	
Juncus effusus	Common Rush	0.500		
Leersia Oryzoides	Rice Cut Grass	1.250	988	
Pontederia Cordata	Pickerelweed	0.250	988	
Sagittaria latifolia	Common Arrowhead	1.250	988	
Scirpus acutus	Hardstern Bulrush	0.250	988	
Scirpus pungens	Chairmakers Rush	0.250	988	
Scirpus validus	Great Bulrush	0.250	988	
Sparganium eurycarpum	Bur Reed	1.000	988	
	Total:	8.625	8,892	

#### C. Wet Meadow Seed Mixture - Lower slopes of basin

Botanical Name	Common Name	lbs. /AC
Grasses and Sedges		
Agrostis alba Carex bebbii Carex bicknellii Carex brevior Carex cristatella Carex molesta Carex normalis Carex scorparia Carex stipata Carex vulpinoidea Elymus virginicus Glyceria striata Juncus dudleyi Juncus torreyi Panicum virgatum	Red Top Bebbs Oval Sedge Bicknells Sedge Plains Oval Sedge Crested Oval Sedge Field Oval Sedge Spreading Oval Sedge Pointed Broom Sedge Common Fox Sedge Brown Fox Sedge Virginia Wild Rye Fowl manna grass Dudleys Rush Torreys Rush Switch Grass	3.00 0.250 0.250 0.150 0.250 0.250 0.190 0.250 0.250 3.000 0.500 0.003 0.005 3.00
Scirpus atrovirens Scirpus cyperinus	Dark Green Rush Wool Grass	0.060 0.015

# Total Grasses and Sedges: 11.67

#### D. Low Profile Prairie With Flowers Seed Mixture - Upper Basin Slopes

<u>Botanical Name</u>	Common Name	lbs /AC
Grasses		
Bouteloua curtipendula Panicum virgatum Elymus trachycaulus Elymus canadensis Schizachyrium scoparium	Side Oats Grama Prairie Switch Grass Slender Wheatgrass Prairie Wild Rye Little Blue Stem	8.000 0.125 2.000 1.000 6.000
Total Grasses:		17.125
Wildflowers/Broadleaves		
Allium cernuum Amorpha canescens Asclepias tuberosa Asclepias canadensis Astragalus canadensis Coreopsis palmata Echinacea pallida Echinacea purperea Eryngium yuccifolium Lespedeza capitata Liatris aspera Liatris pycnostachya Monarda fistulosa Parthenium integrifolium Penstemon didgitalis Petalostemum candidum Petalostemum purpureum Potentilla arguta Pycanthemum tenuifolium Ratibida pinnata Rudebeckia fulgida var.sullvantii Rudbeckia subtomentosa Symphyotrichum laeve Tradescanthia ohiensis Verbena stricta	Nodding Wild Onion Lead Plant Butterflyweed Whorled Milkweed Canada Milk Vetch Prairie Coreopsis Pale Purple Coneflower Purple Coneflower Rattlesnake Master Round-Headed Bush Clover Rough Blazing Star Prairie Blazing Star Prairie Bergamont Wild Quinine Foxglove Beardtongue White Prairie Clover Purple Prairie Clover Purple Prairie Clover Prairie Cinquefoil Slender Mt Mint Yellow Coneflower Showy Black-Eyed Susan Black-Eyed Susan Sweet Black-Eyed Susan Smooth Blue Aster Spiderwort Hoary Vervain	0.190 0.125 0.500 0.063 0.063 0.025 1.000 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.156 0.031 0.031 0.125 0.500 0.500 0.500

# 2.4 GROUNDCOVERS, PERENNIALS AND ANNUALS

Provide plants established and well-rooted in removable containers or integral peat pots and with not less than the minimum number and length of runners required by ANSI Z60.1 for the pot size shown or listed.

# 2.5 TREES AND SHRUBS

- A. Name and Variety: Provide nursery grown plant material true to name and variety.
- B. Quality: Provide trees, shrubs and other plants complying with the recommendations and requirements of ANSI Z60.1 "Standard for Nursery Stock" and as further specified.
- C. Deciduous Trees: Provide trees of height and caliper listed or shown and with branching configuration recommended by ANSI 760 I for type and species required. Provide single stem trees except where special forms are shown or listed. Provide balled and burlapped (B\$B) deciduous
- D. Deciduous Shrubs: Provide shrubs of the height shown or listed and with not less than the minimum number of canes required by ANSI Z60.1 for the type and height of shrub required. Provide balled and burlapped (B\$B) deciduous shrubs.
- E. Coniferous Evergreen: Provide evergreens of the sizes shown or listed. Dimensions indicate minimum spread for spreading and semi-spreading type evergreens and height for other types. Provide quality evergreens with well-balanced form complying with requirements for other size relationships to the primary dimension shown. Provide balled and burlapped (B\$B) evergreen trees and containerized shrubs.
- F. Inspection: All plants shall be subject to inspection and review at the place of growth or upon delivery and conformity to specification requirements as to quality, right of inspection and rejection upon delivery at the site or during the progress of the work for size and condition of balls or roots, diseases, insects and latent defects or injuries. Rejected plants shall be removed immediately from the site.

# 2.6 PLANTING SOIL MIXTURE

Provide planting soil mixture consisting of clean uncompacted topsoil (stockpiled at site) for all planting pits, perennial, annual and groundcover areas. Topsoil shall be conditioned based on any recommendations resulting from the soil test in 1.3.C.

# 2.7 AMENDED SOIL MIXTURE

Provide amended soil mixture consisting of 20% sand, 30% compost \$ 50% topsoil. Compost shall consist of 35% - 65% organic material and less than 1% manufactured inert material. Amended soil mixture shall pass through a 1/2" screen. Mix materials thoroughly.

# 2.8 EROSION CONTROL

A. Erosion Control Blanket (Perimeter Grass Mix): Futerra EnviroNet color: Green, or approved equal. To be installed per manufacturer's recommendations

B. Shoreline Erosion Control Blanket: North American Green SC150, or approved equal. To be installed per manufacturer's recommendations.

Provide mulch consisting of shredded hardwood. Provide sample to Landscape Architect for approval

#### prior to ordering materials. LANDSCAPE WORK PART 3 - EXECUTION

# 3.1 PLANTING SCHEDULE

2.9 MULCH

At least thirty (30) days prior to the beginning of work in each area, submit a planting schedule for approval by the Landscape Architect.

#### 3.2 PLANTINGS

### A. Sodding New Lawns

off-site.

- 1. Remove existing grass, vegetation and turf. Dispose of such material legally off-site, do not
- 2. Till to a depth of not less than 6"; apply soil amendments as needed; remove high areas and fill in depressions; till soil to a homogenous mixture of fine texture, remove lumps, clods, stones over 1" diameter, roots and other extraneous matter. Dispose of such material legally
- 3. Sodded areas shall receive an application of commercial fertilizer at the rate of 10 lbs. per 1,000 sq. ft. and shall have an analysis of 16-8-8.
- 4. Lay sod within 24 hours from time of stripping.

turn over into soil being prepared for lawns.

- 5. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Tamp or roll lightly to ensure contact with subgrade. Work sifted soil into minor cracks between pieces of sod; remove excess to avoid smothering of adjacent
- 6. Water sod thoroughly with a fine spray immediately after planting.

#### B. Seeding New Lawns

- Remove existing grass, vegetation and turf. Dispose of such material legally off-site. Do not turn over into soil being prepared for lawns.
- 2. Till to a depth of not less than 6"; apply soil amendments; remove high areas and fill in depressions; till soil to a homogenous mixture of fine texture, remove lumps, clods, stones over 1" diameter, roots and other extraneous matter. Dispose of such material legally off-site.
- 3. Seeded lawn areas shall receive an application of commercial fertilizer at the rate of 5 lbs. per 1,000 sq, ft. and shall be 6-24-24. Fertilizer shall be uniformly spread and mixed into the soil to a depth of 1" inches
- 4. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage.
- 5. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds five (5) miles per hour. Distribute seed evenly over entire area by sowing equal quantity in two directions at right angles to each other.
- 6. Sow not less than specified rate.
- 7. Rake lawn seed lightly into top !" of soil, roll lightly and water with a fine spray.

#### C. Seeding Native Areas

- 1. The period for planting prairie seed shall be from April 1 to May 15 or November 1 to just before the first frost. Seeding outside of these timeframes must be approved by the landscape architect. Native seed planted outside of specified timeframes must have at least 60 days of growth prior to frost. Dormant seeding in winter is possible if soil conditions allow.
- 2. The General Contractor and Native Landscape Contractor shall be responsible for performing all work necessary to achieve and maintain an acceptable seedbed prior to seeding. All areas must be properly prepared before seeding begins. Equipment having low unit pressure ground contact shall be utilized within the planting areas.
- 3. If present, compacted soils shall be disked or raked prior to seeding. Remedial measures for the access area may, at the direction of the Wetland Consultant, involve ripping from 12 to 18 inches of the soil horizon prior to disking.
- 4. Prior to seeding, planting areas shall have at least twelve inches of clean un-compacted topsoil. Clumps, clods, stones over 2" diameter, roots and other extraneous matter shall be removed and disposed of legally off-site.
- 5. Granular mycorrhizal inoculants shall be installed with the seed mix at a rate of 40lbs/ acre. Inoculant can be banded under seed, worked into seed or added into spray tanks. Native areas
- 6. Contractor shall be solely responsible for the proper handling and storage of the seed according to the best seed handling and storage practices, including fungicide treatments and stratification considerations. Owner shall make no compensation for damage to the seed because of improper storage, cleaning, threshing, or screening operations.
- 7. Except where site conditions preclude their use, seeding shall be performed using a Truax drill, Truax Trillion seeder, or comparable equipment designed specifically for installation of native seed. For areas where site conditions preclude the use of specialized equipment, seed may be installed through hand broadcasting and followed by light raking. Hand broadcast seed shall be spread at twice the specified rate. Other methods of seed installation may be used with prior approval from the Landscape Architect.
- 8. Prior to starting work, all seeding equipment shall be calibrated and adjusted to sow seeds at the proper seeding rate. In general, the optimum seeding depth is 0.25 inch below the soil surface. Areas where the seed has not been incorporated into the soil to the proper depths will not be accepted, and no compensation for materials or labor for the rejected work will be made by the Owner.
- 9. Seeding and soil tracking/firming shall not be done during periods of rain, severe drought, high winds, excessive moisture, frozen ground, or other conditions that preclude satisfactory results.
- 10. Wet mesic and emergent areas shall be planted, and seed allowed to germinate (if possible), prior to flooding with significant amounts of water. Any areas of significant permanent water located within the planting area will receive live plugs in lieu of seed.
- 11. After the seeding operation is completed, install erosion control blanket per manufacturer's specifications.
- 12. Emergent plugs shall be planted in natural groupings within designed areas containing saturated soils or shallow inundation. Plants within groupings shall be planted at 2 foot centers.
- 13. Emergent plugs shall not be planted less than the specified rate and shall be protected with goose exclosures surrounding all natural groupings of plugs.

# E. Groundcover and Perennial Beds

Groundcover, perennials, and annuals shall be planted in continuous beds of planting soil mixture a minimum of 8" deep. Install per spacing indicated on plan.

- 1. Set balled and burlapped (B\$B) stock plumb and in center of pit or trench with top of ball at an elevation that will keep the root flare exposed upon backfill and mulching. Remove burlan from top and sides of balls; retain on bottoms. When set, place additional topsoil backfill around base and sides of ball and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill.
- 2. Dish top of backfill to allow for mulching. Provide additional backfill berm around edge of excavations to form shallow saucer to collect water
- 3. Mulch pits, trenches and planted areas. Provide not less than 2" thickness of mulch and work into top of backfill and finish level with adjacent finish grades. Maintain exposed root flare at all
- 4. Prune only injured or dead branches from flowering trees, if any. Protect central leader of tree during shipping and pruning operations. Prune shrubs to retain natural character in accordance with standard horticultural practices.
- 5. Remove and replace excessively pruned or ill-formed stock resulting from improper pruning.
- 6. The Contractor shall be wholly responsible for assuring that all trees are planted in a vertical and plumb position and remain so throughout the life of this contract and guarantee period. Trees may or may not be staked and guyed depending upon the individual preference of the Contractor; however, any bracing procedure(s) must be approved by the Owner prior to its

# 3.3 INITIAL MAINTENANCE

- A. Begin maintenance immediately after planting, continuing until final acceptance. A minimum of thirty
- B. Maintain planted and seeded areas by watering, rolling/regrading, replanting and implementing erosion control as required to establish vegetation free of eroded or bare areas.
- C. Highlands Fescue and Native Planting areas are to be mowed only once per spring during the initial three year establishment period.
- D. Once trees, shrubs, mulch beds, seed have been installed. Initial maintenance will commence. Initial maintenance shall be considered part of the installation process and will consist of the following.
- 1. Low Maintenance Turf Areas shall receive appropriate granular fertilizer based on time of year and manufacturer's recommendations.
- 2. Fertilizer stakes shall be installed at the base of trees and shrubs per manufacturer's recommendations.
- 4. Weeds shall be hand pulled from turf areas during the first three months of establishment.

3. Temporary zoned irrigation shall be installed during the first three months of establishment.

After the turf has established weeds can be treated with a broadleaf specific herbicide.

5. Bare or underperforming areas shall be over seeded.

### 3.4 NATIVE LANDSCAPED AREAS

CONTINUED MONITORING \$ MAINTENANCE

The Owner shall notify the County upon completion of plantings. The Owner's Environmental Specialist shall inspect the plantings and provide the County with a copy of the planting locations, species, and auantities for verification by the County.

The Owner's Environmental Specialist shall inspect the plantings at least twice per year during the three-year term of the Establishment and Maintenance Cash Bond or Letter of Credit, to determine compliance with the minimum annual performance criteria (See 1.5C Guarantees). A monitoring report will be provided to the County by January 31st following each inspection.

### B. Maintenance:

With the exception of the emergent area, native seeding areas should be mowed to a height of 6" to control annual nonnative and invasive species early in the growing season. Mowing, including weed whipping, should be conducted during prior to weed seed production. Mowing height and timing may need to be adjusted per target species. Small quantities of undesirable plant species, shall be controlled by hand pulling prior to the development and maturity of the plant. Hand removal shall include the removal of all above-ground and below-ground stems, roots and flower masses prior to development of seeds. Herbicide should be applied as necessary by a trained and licensed operator that is competent in the identification of native and nonnative herbaceous plants. Debris and litter shall be removed from the native areas and storm structures shall be inspected and maintained as necessary.

#### Second Season

Control of undesirable plant species during the second growing season shall consist primarily of precise herbicide application. Mowing and weed whipping shall be conducted as needed during the early growing season and as needed to a height of 6 to 8 inches to prevent annual weeds from producing seed. Debris and litter shall be removed from the native areas and storm structures shall be inspected and

#### Third Season:

Seasonal mowing and herbicide will continue as above but should be reduced over time. Debris and litter shall be removed from the native areas and storm structures shall be inspected and maintained as necessary. At the completion of the third growing season (dependent on fuel availability; dominance of graminoid species; and favorable weather conditions), fire may be introduced to the planted areas as

State and local permits shall be required prior to controlled burning. Burning shall be conducted by trained professionals experienced in managing smoke in urban environments. Prior to a controlled burn, surrounding property owners as well as local fire and police departments shall be notified. A burn plan detailing preferred wind direction and speed, location of fire breaks, and necessary personnel and equipment shall be prepared and utilized in planning and burn implementation.

The initial burn shall be dependent on fuel availability which is directly related to the quantity and quality of grasses contained within the plant matrix. Timing of the burn shall be determined based on results of the annual monitoring indicating species composition of the management area and other analysis of management goals. Generally, burns shall be scheduled from spring to fall on a rotational basis. Burn frequency shall also be dependent on the species composition within the management area. Generally, a new prairie restoration area shall be burned annually for two years after the second or third growing season after planting and then every 2-3 years thereafter, burning 50-75% of the area.

#### C. Long Term Wetland and Prairie Management/Maintenance

A final compliance report and Long-Term Operation and Maintenance Plan shall be submitted by the Developer/Owner's Environmental Specialist no less than 60 days prior to the expiration of any landscape Cash Bond or Letter of Credit posted for the native areas. Final acceptance and release shall be determined by the County/City/USACE upon inspection of the site to verify compliance.

The Long -Term Operation and Maintenance Plan shall be written to include guidelines and schedules for burning, mowing, application of herbicide, debris/litter removal and inspection schedule for storm structures and sediment removal.

# 3.5 CLEAN UP AND PROTECTION

- A. During landscape work, store materials and equipment where directed. Keep pavements clean and work areas and adjoining areas in an orderly condition.
- B. Protect landscape work and materials from damage due to landscape operations, operations by other trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed by Landscape Architect.

## 3.6 INSPECTION AND ACCEPTANCE

- A. The Landscape Architect reserves the right to inspect seeds, plants, trees and shrubs either at place of growth or at site before planting for compliance with requirements for name, variety, size, quantity, quality and mix proportion.
- B. Supply written affidavit certifying composition of seed mixtures and integrity of plant materials with respect to species, variety and source.
- C. Notify the Landscape Architect within five (5) days after completing initial and/or supplemental plantings in each area. D. When the landscape work is completed, including maintenance, the Landscape Architect will, upon

request, make a final inspection to determine acceptability. After final acceptance, the Owner will

SIGN NOTES: 1. SIGN BACKGROUND COLOR: C=40, M=70, Y=100, K=28SIGN FONT AND GRAPHIC

COLOR: WHITE

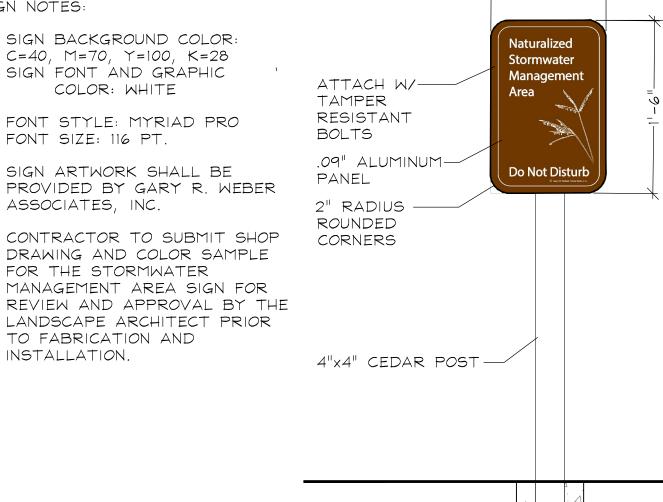
be responsible for maintenance.

- 2. FONT STYLE: MYRIAD PRO FONT SIZE: 116 PT.
- PROVIDED BY GARY R. WEBER ASSOCIATES, INC. 4. CONTRACTOR TO SUBMIT SHOP DRAWING AND COLOR SAMPLE FOR THE STORMWATER MANAGEMENT AREA SIGN FOR

TO FABRICATION AND

INSTALLATION.

3. SIGN ARTWORK SHALL BE



**NATURALIZED AREA SIGN DETAIL** SCALE: NTS

# GARY R. WEBER ASSOCIATES, INC LAND PLANNING ECOLOGICAL CONSULTING LANDSCAPE ARCHITECTURE

402 WEST LIBERTY DRIVE

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4.16.2020 3.11.2020 2.07.2020 REVISIONS

12.18.2019 PROJECT NO. JE1926 DRAWN GFB CHECKED MGM SHEET NO.

